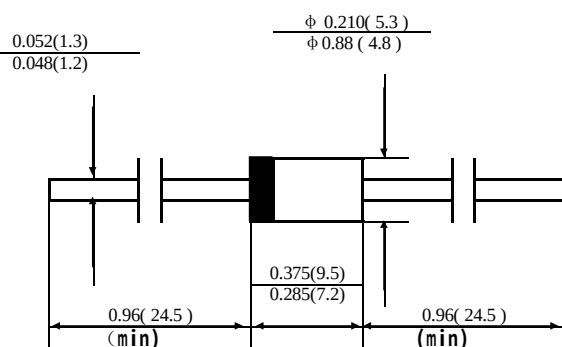




5.0AMP PLASTIC SILICON RECTIFIERS

VOLTAGE RANGE: 80 VOLTS

DO-27



inch (mm)

FEATURES

- . Low cost
- . Diffused junction
- . Low Leakage
- . Low forward voltage drop
- . High current capability
- . Easily cleaned with Freon. Alcohol. Isopropanol and similar solvents
- . The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- . Case: JEDEC DO-27. molded plastic
- . Terminals: Axial leads. Solderable per MIL - STD - 202. Method 208
- . Polarity: Color band denotes cathode
- . Weight: 0.041 ounce. 1.15 grams
- . Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase. half wave. 60HZ. resistive or inductive load. For capacitive load. derate current by 20%

	SYMBOL	SR580	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	80	V
Maximum RMS Voltage	V_{RMS}	56	V
Maximum DC Blocking Voltage	V_{DC}	80	V
Maximum Average Forward Rectified Current 9.5mm Lead Length.	$I_{(AV)}$	5.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load	I_{FSM}	80.0	A
Maximum Forward Voltage at 5.0A DC	V_F	0.85	V
Maximum Reverse Current $T_A = 25^\circ C$ at Rated DC Blocking Voltage $T_A = 100^\circ C$	I_R	1.0	mA
		10.0	
Typical Thermal Resistance (Note 2)	R_{QJA}	20	$^\circ C/W$
	R_{QJL}	8	
Operating Junction Temperature Range	T_j	—65 to 150	$^\circ C$
Storage Temperature Range	T_{STG}	—65 to 150	$^\circ C$

- NOTE:**
1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC
 2. Thermal resistance junction to Ambient at 9.5mm lead length,P.C.B.mounted

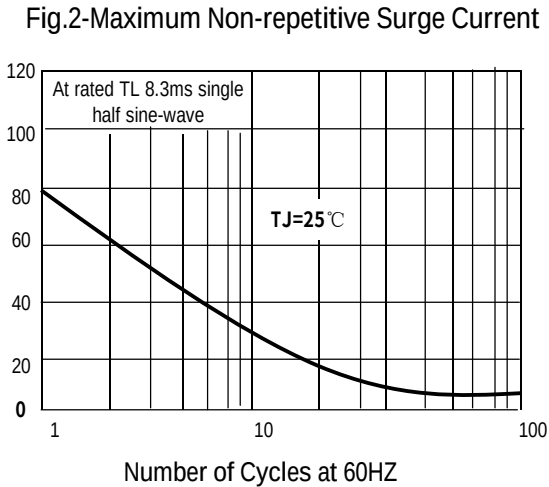
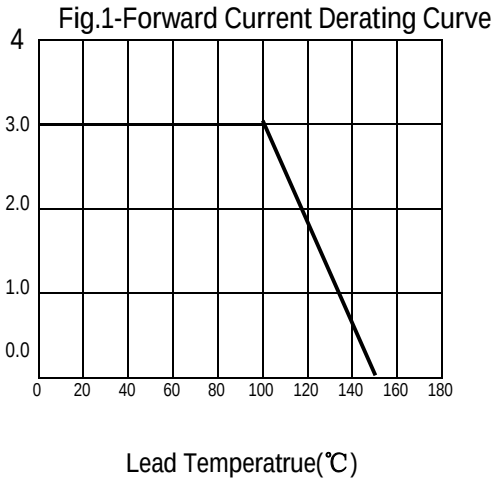


FIG. 3 -- Typical Junction Capacitance

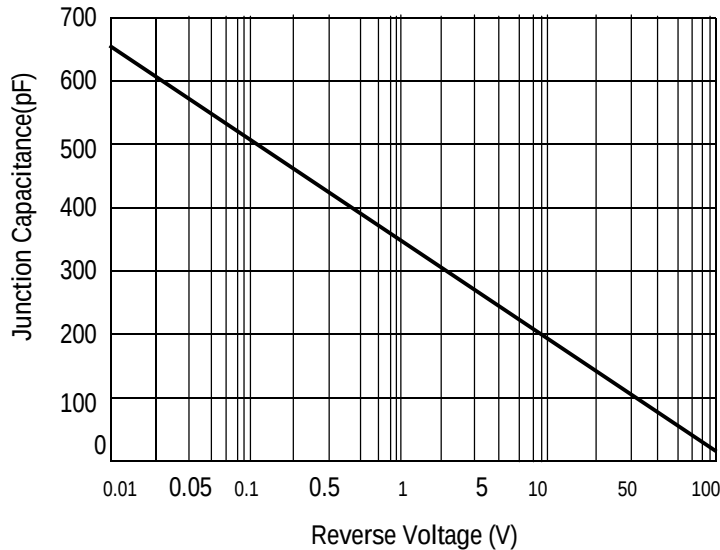


FIG. 4 -- TYPICAL REVERSE CHARACTERISTICS

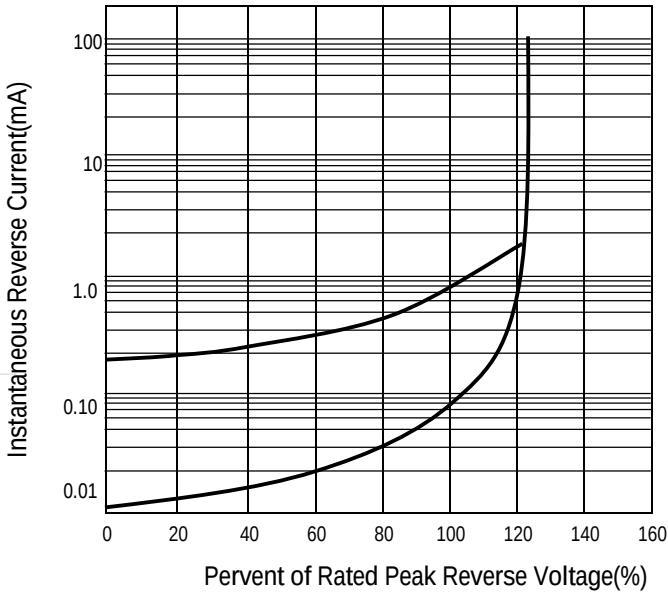


FIG. 5 -- Typical Forward Characteristics

